

Green Industrial Analyses and Retrofits: Can We Help You?

Green Industrial Analyses and Retrofits (GIAR) is a three-year initiative under the jobsOntario program. It helps Ontario companies to:

- * use energy and water more efficiently,
- * reduce, reuse and recycle solid waste, and
- * reduce or eliminate liquid effluents and gaseous emissions.

GIAR is a two-step process.

The first step helps companies to carry out Green Analyses that identify opportunities for reducing energy and water use and reducing waste. We pay up to 75 per cent of the cost, to a maximum of \$100,000.

The second step provides Retrofit Implementation. Here, we pay up to 30 per cent of the cost, to a maximum of \$300,000.

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GIAR plays an important role in the Ontario government's Green Industry Strategy. This is because the resulting retrofits stimulate demand for the goods and services produced by the province's growing green industry sector.

The improvements encouraged by GIAR also help participating companies to reduce costs and become more competitive. This was demonstrated in a green analysis pilot program carried out at nine industrial plants in 1992/93. The analyses identified potential annual savings ranging from \$138,000 to \$4 million per plant, with an average payback of 2.5 years. The results of this pilot program are contained in an attachment entitled "Green Industrial Analysis Pilot Program — 1992/93."

In helping companies to become more competitive, GIAR also helps to create jobs and preserve existing ones. And by encouraging measures to save energy and water and reduce waste, GIAR is helping to bring about a cleaner, greener, more sustainable Ontario.

The following sections describe the two parts of GIAR. Each contains a checklist that will help you to decide whether your company qualifies for funding.

PART ONE: *Green Analysis*

We pay up to 75 per cent, to a maximum of \$100,000

A Green Analysis is a detailed plant site assessment of current usage of energy, water and other material inputs to the production process. It also looks at waste generation and emissions.

The analysis is conducted by a consulting firm selected by the Ministry. The end-product is a confidential report that identifies improvement measures in terms of capital costs, savings and payback periods.

The emphasis is on identifying measures that conserve resources and reduce or eliminate wastes at or near their generation source before they enter a waste stream.

The Ministry will conduct only a limited number of Green Analyses in various industrial manufacturing and resource recovery sectors.

Can We Help You? Here's a Checklist

To be eligible for a Green Analysis, a company:

- * must be representative of its industrial sector
- * must be in compliance with existing environmental laws
- * must be an intensive user of resources and have at least two of the following:
 - an annual energy bill in excess of \$150,000
 - an annual water bill in excess of \$100,000 or annual consumption in excess of 100,000 cubic metres
 - potential for significant waste reduction related to the usage of production materials (solid\liquid\gas) other than energy and water

- * must show potential for further environmental and resource conservation improvements
- * must allow the Ministry to publish the findings in a short case study, which will be subject to company review before printing
- * must be financially sound and have a strong commitment to implement reasonable measures identified in the Green Analysis

Some of the more expensive or risky measures identified in a Green Analysis may need further technical and financial information before a company can make a decision to implement. The Ministry offers feasibility study funding only when further investigation is warranted.

PART TWO: Retrofit Implementation

We pay up to 30 per cent, to a maximum of \$300,000

This part of GIAR encourages the implementation of equipment retrofits necessary to realize source-reduction improvements. The projects must have a payback of more than 1.5 years based on all savings. As well, the simple payback based on **net green** cost savings alone must lie between 1.5 and 5 years. Projects ineligible for funding are fuel-switching and cogeneration projects, as well as those which would likely be eligible for funding by other programs.

It is not necessary for companies to have had a Green Analysis in order to apply for a retrofit grant. However, the technical and financial aspects of the proposed retrofit project must be documented in sufficient detail.

Can We Help You? Here's a Checklist

To be eligible, a company:

- * must be in the manufacturing or resource-recovery sectors and have an operating plant in Ontario
- * must be financially sound, and must maintain more than 20 per cent equity in the plant based on fixed assets
- * must be in compliance with existing environmental laws
- * must be willing to document the jobs created and/or saved under the new operating conditions at their plants, as well as those created during manufacture and installation of the green project
- * must allow the Ministry to publish and disseminate information regarding the green project in the form of a case study or article, etc.

To increase the job creation impact, it is important wherever possible to maximize Canadian content and Canadian value-added. Therefore the use of Canadian suppliers of products and services is preferred.

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TO OBTAIN GIAR GUIDELINES AND APPLICATIONS, CONTACT:

Ministry of Environment and Energy
Industry Conservation Branch
Tel: (416) 327-1453 or (416) 327-1455
Fax: (416) 327-1261
Outside the Toronto area, call toll free:
1-800-363-7491.

- * APPLICATIONS WILL BE ACCEPTED UNTIL JULY 1, 1996
- * PROGRAM ENDS MARCH 31, 1997

